#### NAPROSYN - naproxen tablet

bryant ranch prepack

### DESCRIPTION

Naproxen is a proprionic acid derivative related to the arylacetic acid group of nonsteroidal anti-inflammatory drugs.

The chemical names for naproxen and naproxen sodium are (S)-6-methoxy- $\alpha$ -methyl-2-naphthaleneacetic acid and (S)-6-methoxy- $\alpha$ -methyl-2-naphthaleneacetic

acid, sodium salt, respectively. Naproxen and naproxen sodium have the following structures, respectively:

Naproxen has a molecular weight of 230.26 and a molecular formula of C14H14O3. Naproxen sodium has a molecular weight of 252.23 and a molecular formula of C14H13NaO3.

Naproxen is an odorless, white to off-white crystalline substance. It is lipid-soluble, practically

insoluble in water at low pH and freely soluble in water at high pH.

The octanol/water partition coefficient of naproxen at pH 7.4 is 1.6 to 1.8. Naproxen sodium is a white to creamy white, crystalline solid,

freely soluble in water at neutral pH.

NAPROSYN (naproxen tablets) is available as yellow tablets containing 250 mg of naproxen, pink tablets containing 375 mg of naproxen and yellow

tablets containing 500 mg of naproxen for oral administration. The inactive ingredients are croscarmellose sodium, iron oxides, povidone and magnesium stearate.

### **EC-NAPROSYN**

(naproxen delayed-release tablets) is available as enteric-coatedwhite tablets containing 375 mg of naproxen and 500 mg of naproxen for oral administration. The inactive ingredients are croscarmellose sodium, povidone and magnesium stearate. The enteric coating dispersion

contains methacrylic acid copolymer, talc, triethyl citrate, sodium hydroxide and purified water. The dissolution of this enteric-coated naproxen tablet is pH dependent with rapid dissolution above pH 6. There is no dissolution below pH 4.

ANAPROX (naproxen sodium tablets) is available as blue tablets containing 275 mg of naproxen sodium and ANAPROX DS (naproxen sodium tablets) for oral administration. The inactive ingredients are croscarmellose sodium, povidone and magnesium stearate. The enteric coating dispersion contains methacrylic acid copolymer, talc, triethyl citrate, sodium hydroxide and purified water.

## CLINICAL PHARMACOLOGY

Naproxen is a nonsteroidal anti-inflammatory drug

(NSAID) with analgesic and antipyretic properties. The sodium salt

of naproxen has been developed as a more rapidly absorbed formulation

of naproxen for use as an analgesic. The mechanism of action of the

naproxen anion, like that of other NSAIDs, is not completely understood

but maybe related to prostaglandin synthetase inhibition.

Naproxen and naproxen sodium are rapidly and completely

absorbed from the gastrointestinal tract with an in vivo bioavailability

of 95%. The different dosage forms of NAPROSYN are bioequivalent in

terms of extent of absorption (AUC) and peak concentration (Cmax); however, the products do differ in their pattern of absorption.

These differences between naproxen products are related to both the

chemical form of naproxen used and its formulation. Even with the

observed differences in pattern of absorption, the elimination half-life

of naproxen is unchanged across products ranging from 12 to 17 hours.

Steady-state levels of naproxen are reached in 4 to 5 days, and the

degree of naproxen accumulation is consistent with this half-life.

This suggests that the differences in pattern of release play only

a negligibie role in the attainment of steady-state plasma levels.

### INDICATION AND USAGE

Carefully consider the potential benefits and risks

of NAPROSYN, EC-NAPROSYN, ANAPROX, ANAPROX DS or NAPROSYN Suspension

and other treatment options before deciding to use NAPROSYN, EC-NAPROSYN,

ANAPROX, ANAPROX DS or NAPROSYN Suspension. Use the lowest effective

dose for the shortest duration consistent with individual patient

treatment goals.

Naproxen as

NAPROSYN, EC-NAPROSYN, ANAPROX, ANAPROX DS or NAPROSYN Suspension

is indicated:

- \* For the relief of the signs and symptoms of rheumatoid arthritis
- \* For the relief of the signs and symptoms of osteoarthritis
- \* For the relief of the signs and symptoms of ankylosing spondylitis
- \* For the relief of the signs and symptoms of juvenile arthritis

Naproxen as NAPROSYN Suspension is recommended for

juvenile rheumatoid arthritis in order to obtain the maximum dosage

flexibility based on the patient's weight.

Naproxen

as NAPROSYN, ANAPROX, ANAPROX DS and NAPROSYN Suspension is also indicated:

- \* For relief of the signs and symptoms of tendonitis
- \* For relief of the signs and symptoms of bursitis
- \* For relief of the signs and symptoms of acute gout
- \* For the management of pain
- \* For the management of primary dysmenorrhea

EC-NAPROSYN is not recommended for initial treatment

of acute pain because the absorption of naproxen is delayed compared to absorption from other naproxen-containing products.

#### CONTRADICTIONS

NAPROSYN, EC-NAPROSYN, ANAPROX, ANAPROX DS and NAPROSYN

Suspension are contraindicated in patients with known hypersensitivity

to naproxen and naproxen sodium.

NAPROSYN, EC-NAPROSYN,

ANAPROX, ANAPROX DS and NAPROSYN Suspension should not be given to

patients who have experienced asthma, urticaria, or allergic-type

reactions after taking aspirin or other NSAIDs. Severe, rarely fatal,

anaphylactic-like reactions to NSAIDs have been reported in such patients

NAPROSYN, EC-NAPROSYN,

ANAPROX, ANAPROX DS and NAPROSYN Suspension are contraindicated for

the treatment of peri-operative pain in the setting of coronary artery

bypass graft (CABG) surgery.

#### ADVERSE REACTIONS

Adverse reactions reported in controlled clinical

trials in 960 patients treated for rheumatoid arthritis or osteoarthritis are listed below. In general, reactions in patients treated chronically were reported 2 to 10 times more frequently than they were in short-term studies in the 962 patients treated for mild to moderate pain or for dysmenorrhea. The most frequent complaints reported related to the gastrointestinal tract.

A clinical study found

gastrointestinal reactions to be more frequent and more severe in

rheumatoid arthritis patients taking daily doses of 1500 mg naproxen

compared to those taking 750 mg naproxen (see CLINICAL PHARMACOLOGY).

In controlled clinical trials with about

80 pediatric patients and in well-monitored, open-label studies with

about 400 pediatric patients with juvenile arthritis treated with

naproxen, the incidence of rash and prolonged bleeding times were

increased, the incidence of gastrointestinal and central nervous system

reactions were about the same, and the incidence of other reactions

were lower in pediatric patients than in adults.

In patients taking naproxen in clinical trials, the most frequently reported adverse experiences in approximately 1% to 10% of patients

are:

Gastrointestinal

(GI) Experiences, including: heartburn1, abdominal pain1, nausea1, constipation1, diarrhea, dyspepsia, stomatitis

Central

Nervous System: headache1, dizziness1, drowsiness1, lightheadedness,

vertigo

#### OVERDOSAGE

Significant naproxen overdosage may be characterized by lethargy, dizziness, drowsiness, epigastric pain, abdominal discomfort, heartburn, indigestion, nausea, transient alterations in liver function, hypoprothrombinemia, renal dysfunction, metabolic acidosis, apnea, disorientation or vomiting. Gastrointestinal bleeding can occur. Hypertension, acute renal failure, respiratory depression, and coma may occur, but are rare. Anaphylactoid reactions have been reported with therapeutic ingestion of NSAIDs, and may occur following an overdose. Because naproxen sodium may be rapidly absorbed, high and early blood levels should be anticipated. A few patients have experienced convulsions, but it is not clear whether or not these were drug-related. It is not known what dose of the drug would be life threatening. The oral LD50 of the drug is 543 mg/kg in rats, 1234 mg/kg in mice, 4110 mg/kg in hamsters, and greater than 1000 mg/kg in dogs.

# DOSAGE AND ADMINISTRATION

Carefully consider the potential benefits and risks of NAPROSYN, EC-NAPROSYN, ANAPROX, ANAPROX DS and NAPROSYN Suspension and other treatment options before deciding to use NAPROSYN, EC-NAPROSYN, ANAPROX, ANAPROX DS and NAPROSYN Suspension. Use the lowest effective dose for the shortest duration consistent with individual patient treatment goals. After observing the response to initial therapy with NAPROSYN, EC-NAPROSYN, ANAPROX, ANAPROX DS or NAPROSYN Suspension, the dose and frequency should be adjusted to suit an individual patient's needs.

Different dose strengths and formulations (ie, tablets, suspension) of the drug are not necessarily

bioequivalent. This difference should be taken into consideration when changing formulation.

Although NAPROSYN, NAPROSYN Suspension, EC-NAPROSYN, ANAPROX and ANAPROX DS

all circulate in the plasma as naproxen, they have pharmacokinetic

differences that may affect onset of action. Onset of pain relief

can begin within 30 minutes in patients taking naproxen sodium and

within 1 hour in patients taking naproxen. Because EC-NAPROSYN dissolves

in the small intestine rather than in the stomach, the absorption

of the drug is delayed compared to the other naproxen formulations.

The recommended strategy for initiating therapy is to choose a formulation and a starting

dose likely to be effective for the patient and then adjust the dosage

based on observation of benefit and/or adverse events. A lower dose

should be considered in patients with renal or hepatic impairment or in elderly patients.

Studies indicate that although total plasma concentration

of naproxen is unchanged, the unbound plasma fraction of naproxen

is increased in the elderly. Caution is advised when high doses are

required and some adjustment of dosage may be required in elderly

patients. As with other drugs used in the elderly, it is prudent to use the lowest effective dose.

Naproxen-containing products are not recommended

for use in patients with moderate to severe renal impairment

Rheumatoid Arthritis, Osteoarthritis and Ankylosing Spondylitis:

NAPROSYN 250 mg or 375 mg or 500 mg twice daily

275 mg (naproxen 250 mg with 25 mg sodium) twice daily

ANAPROX DS 550 mg (naproxen 500 mg with 50 mg sodium) twice daily

NAPROSYN Suspension 250 mg (10 mL/2 tsp) or 375 mg (15 mL/3 tsp or 500 mg) or (20 mL/4 tsp) twice daily

EC-NAPROSYN 375 mg or 500 mg twice daily.

To maintain the integrity of the enteric coating,

the EC-NAPROSYN tablet should not be broken, crushed or chewed during

ingestion. NAPROSYN Suspension should be shaken gently before use.

During long-term administration, the dose of naproxen

may be adjusted up or down depending on the clinical response of the

patient. A lower daily dose may suffice for long-term administration.

The morning and evening doses do not have to be equal in size and

the administration of the drug more frequently than twice daily is not necessary.

In patients who tolerate lower

doses well, the dose may be increased to naproxen 1500 mg/day for limited periods of up to 6 months when a higher level of anti-inflammatory/analgesic activity is required. When treating such patients with naproxen 1500 mg/day, the physician should observe sufficient increased clinical benefits to offset the potential increased risk. The morning and evening doses do not have to be equal in size and administration of the drug more frequently than twice daily does not generally make a difference in response.

The use of NAPROSYN Suspension is recommended for juvenile arthritis in children 2 years or older because it allows for more flexible dose titration based on the child's weight. In pediatric patients, doses of 5 mg/kg/day produced plasma levels of naproxen similar to those seen in adults taking 500 mg of naproxen.

The recommended total daily dose

of naproxen is approximately 10 mg/kg given in 2 divided doses (ie, 5 mg/kg given twice a day). A measuring cup marked in 1/2 teaspoon and 2.5 milliliter increments is provided with the NAPROSYN Suspension.

The following table may be used as a guide for dosing of NAPROSYN

Suspension:

Dose	Administered as
62.5 mg bid	2.5 mL (1/2 tsp) twice daily
125 mg bid	5.0 mL (1 tsp) twice daily
187.5 mg bid	7.5 mL (1 1/2 tsp) twice daily
	62.5 mg bid 125 mg bid

The recommended starting dose is 550 mg of naproxen

sodium as ANAPROX/ANAPROX DS followed by 550 mg every 12 hours or

275 mg every 6 to 8 hours as required. The initial total daily dose should not exceed 1375 mg of naproxen sodium. Thereafter, the total daily dose should not exceed 1100 mg of naproxen sodium. Because the sodium salt of naproxen is more rapidly absorbed, ANAPROX/ANAPROX

DS is recommended for the management of acute painful conditions when

prompt onset of pain relief is desired. NAPROSYN may also be used

but EC-NAPROSYN is not recommended for initial treatment of acute

pain because absorption of naproxen is delayed compared to other naproxen-containing

The recommended starting dose is 750 mg of NAPROSYN

followed by 250 mg every 8 hours until the attack has subsided. ANAPROX may also be used at a starting dose of 825 mg followed by 275 mg every

8 hours. EC-NAPROSYN is not recommended because of the delay in absorption

(see CLINICAL PHARMACOLOGY, INDICATIONS

AND USAGE).).

#### HOW SUPPLIED

NAPROSYN Tablets: 250 mg: round, yellow, biconvex, engraved with NPR LE 250 on one side and scored on the other. Packaged in light-resistant bottles of 100.

100's (bottle):

NDC 0004-6313-01.

375 mg: pink, biconvex oval,

engraved with NPR LE 375 on one side. Packaged in light-resistant

bottles of 100.

100's

(bottle): NDC 0004-6314-01.

500 mg: yellow,

capsule-shaped, engraved with NPR LE 500 on one side and scored on

the other. Packaged in light-resistant bottles of 100.

100's (bottle): NDC 0004-6316-01.

Store at  $15^{\circ}$  to  $30^{\circ}$ C ( $59^{\circ}$  to  $86^{\circ}$ F)

in well-closed containers; dispense in light-resistant containers.

NAPROSYN Suspension: 125 mg/5 mL (contains 39 mg sodium, about 1.5 mEq/teaspoon): Available

in 1 pint (473 mL) light-resistant bottles (NDC 0004-0028-28).

Store at  $15^{\circ}$  to  $30^{\circ}$ C ( $59^{\circ}$  to  $86^{\circ}$ F);

avoid excessive heat, above 40°C (104°F). Dispense in light-resistant

containers. Shake gently before use.

EC-NAPROSYN Delayed-Release Tablets: 375

mg: white, oval biconvex coated tablets imprinted with NPR-EC 375

on one side. Packaged in light-resistant bottles of 100.

100's (bottle): NDC 0004-6415-01.

500 mg: white, oblong coated tablets, imprinted with NPR-EC

500 on one side. Packaged in light-resistant bottles of 100.

100's (bottle): NDC 0004-6416-01.

Store at 15° to 30°C (59° to 86°F)

in well-closed containers; dispense in light-resistant containers.

ANAPROX Tablets: Naproxen

sodium 275 mg: light blue, oval-shaped, engraved with NPS-275 on one

side. Packaged in bottles of 100.

100's

(bottle): NDC 0004-6202-01.

Store at 15°

to 30°C (59° to 86°F) in well-closed containers.

ANAPROX DS Tablets: Naproxen sodium 550 mg: dark blue, oblong-shaped, engraved with NPS

550 on one side and scored on both sides. Packaged in bottles of 100.

100's (bottle): NDC 0004-6203-01.

Store at 15° to 30°C (59° to 86°F)

in well-closed containers. Revised: September

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# MEDICATION GUIDE APPROVAL

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